

SAC-4P-M8MR/ 2,0-680 FDP - Sensor/actuator cable



1096009

<https://www.phoenixcontact.com/nl/products/1096009>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 4-position, PVC, gray, shielded, Plug angled M8, on free cable end, cable length: 2 m, Foil shielding plus drain wire

Commercial data

Item number	1096009
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to order (non-returnable)
Sales key	AF1IEF
Product key	AF1IEF
GTIN	4055626929606
Weight per piece (including packing)	22,22 g
Weight per piece (excluding packing)	22,22 g
Customs tariff number	85444920
Country of origin	Information on the country of origin is provided with the delivery.

SAC-4P-M8MR/ 2,0-680 FDP - Sensor/actuator cable



1096009

<https://www.phoenixcontact.com/nl/products/1096009>

Technical data

Product properties

Application	Standard, U.S. cables
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque	0.2 Nm (M8 connectors)
-------------------	------------------------

Connector

Connection 1

Type	Plug angled M8
------	----------------

SAC-4P-M8MR/ 2,0-680 FDP - Sensor/actuator cable



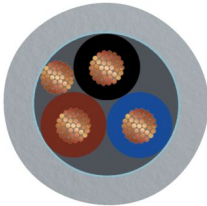
1096009

<https://www.phoenixcontact.com/nl/products/1096009>

Connection 2

Type	free cable end
------	----------------

Cable/line

Cable length	2 m
Dimensional drawing	
Cable weight	26.04 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	3
Shielded	yes
AWG signal line	24
Wire diameter incl. insulation	1.12 mm ±0.03 mm
External cable diameter	4.17 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PVC (Signal line)
Single wire, color	brown, blue, black
Type of pair shielding	Plastic-coated aluminum foil, aluminum side inside
Overall twist	Conductors, fillers, and drain wire are twisted with left-hand lay
Max. conductor resistance	max. 80.2 Ω/km (20 °C)
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Nominal voltage, cable	300 V
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, movable installation	34 mm
Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

1096009

<https://www.phoenixcontact.com/nl/products/1096009>

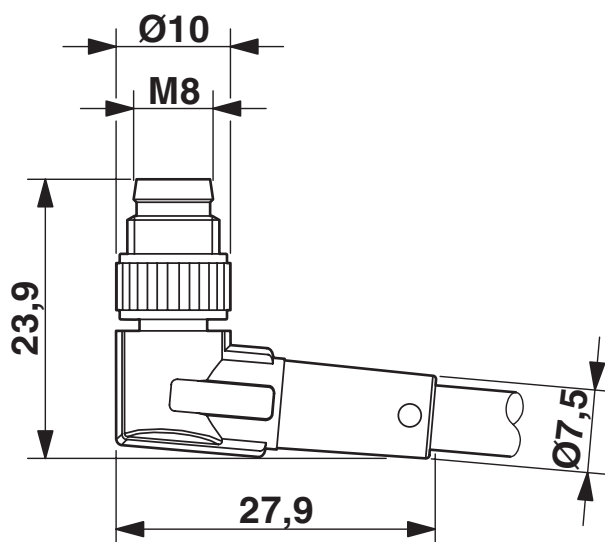
Ambient temperature (operation) (Cable, flexible installation)	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

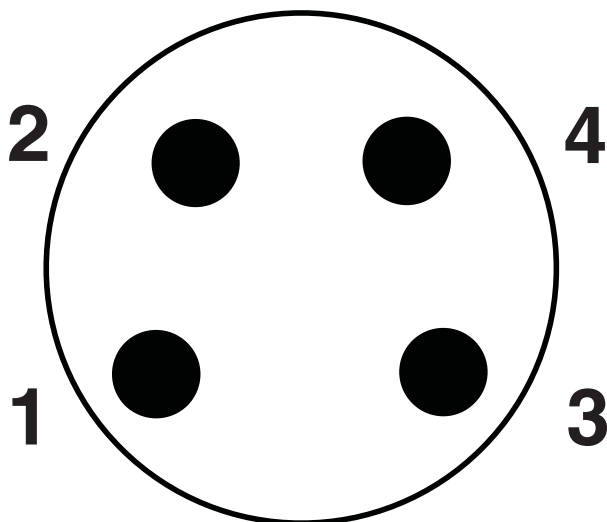
Drawings

Dimensional drawing



M8 x 1 male plug, angled version

Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

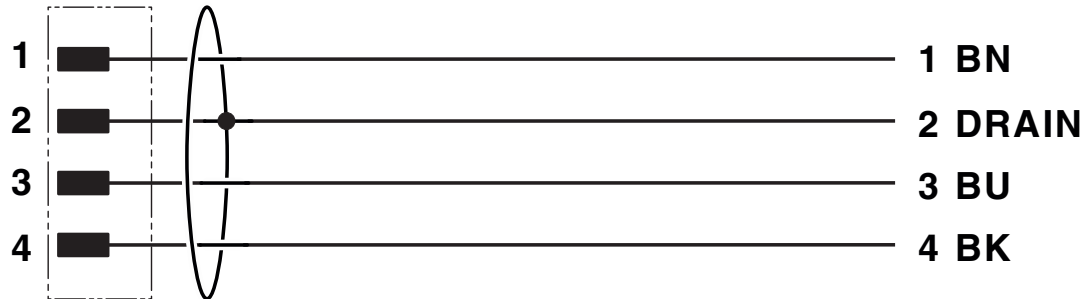
SAC-4P-M8MR/ 2,0-680 FDP - Sensor/actuator cable

1096009

<https://www.phoenixcontact.com/nl/products/1096009>



Circuit diagram



Contact assignment of M8 plugs/sockets

SAC-4P-M8MR/ 2,0-680 FDP - Sensor/actuator cable



1096009

<https://www.phoenixcontact.com/nl/products/1096009>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1096009>

	 UL Listed Approval ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 A	-	-

	 cUL Listed Approval ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 A	-	-

SAC-4P-M8MR/ 2,0-680 FDP - Sensor/actuator cable



1096009

<https://www.phoenixcontact.com/nl/products/1096009>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	31251501
-------------	----------

SAC-4P-M8MR/ 2,0-680 FDP - Sensor/actuator cable



1096009

<https://www.phoenixcontact.com/nl/products/1096009>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT B.V.
Hengelder 56 6902 PA Zevenaar
Postbus 246 6900 AE Zevenaar
(0316) 59 17 20
sales@phoenixcontact.nl